IN THE ABSTRACT:

Please amend the abstract replacing deleting the current abstract and replacing it with the following:

A UWB communication system and method for fast synchronization of one transceiver with another using the incoming UWB signal, where synchronization is achieved in less than a full code wheel spin. An exemplary embodiment includes a UWB waveform correlator, a timing generator, and a controller wherein the controller examines the correlator outputs as the code-wheel spins, and generates control signals to cause the timing generator to stop and track the incoming UWB signal whenever the incoming signal is received with sufficient SNR to provide a predetermined quality of service such as bit-error rate (BER). This embodiment will in any case determine when the receiver has been substantially synchronized with an incoming signal, yet without an exhaustive search of the entire code-wheel.

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